

CLAIMS

1. Apparatus for performing electrophoresis on a patient's eye comprising:
a composite contact lens structure having:

a conductive outer shell;

a contact lens for contacting a patient's eye; and

a drug for dilating a patient's eye or reversing dilation of a patient's eye.

2. The apparatus of claim 1, wherein the contact lens is soft.

3. The apparatus of claim 2, wherein the contact lens is made of polyfilcon.

4. The apparatus of claim 1, further comprising a hand-held power source.

5. The apparatus of claim 4, wherein the power source is battery powered.

6. The apparatus of any one of claims 1-5, wherein the contact lens is pre-medicated with
a dilator drug.

7. The apparatus of any one of claims 1-3, wherein current is delivered to the contact lens
via wireless technology.

8. A method of using electrophoresis to help deliver dilation drops to a patient more rapidly,
comprising:

applying dilation drops to a patient's eye;

applying electrical current of not more than 1.5 mA to the patient's eye for not more than 120
seconds.

9. A method of using electrophoresis to help deliver iris constriction drops to a patient more
rapidly, comprising:

applying iris constriction drops to a patient's eye;

applying electrical current of not more than 1.5 mA to the patient's eye for not more than 120
seconds.

10. The method of claims 8 or 9, wherein the current is delivered to the eye via wireless
technology.

11. Apparatus for dilating a patient's pupil comprising:

a composite contact lens a structure that comprises:

a conductive outer shell with a concavity; and

a lens that fits the concavity of the shell, for contacting a patient's eye; and

a dilation drug liquid that forms an interface between the patient's eye and the lens.

12. The apparatus of claim 11, wherein the lens is soft.

13. The apparatus of claim 12, wherein the lens is made of polyfilcon.

14. The apparatus of claim 11, further comprising a hand-held power source.

15. The apparatus of claim 14, wherein the power source is battery powered.

✓ 16. A method of delivering dilation drops to a patient for dilating the patient's pupil more rapidly, comprising the steps of:

5 a) placing a contact lens on the patient's eye applying dilation drops to a patient's eye and in between the patient's eye and the lens;

b) applying electrical current of not more than 1.5 mA to the patient's eye for not more than 120 seconds.

✓ 17. A method of dilating a patient's pupil, comprising the steps of:

10 a) placing a contact lens on the patient's eye applying dilation drops to a patient's eye and in between the patient's eye and the lens

b) applying iris constriction drops to a patient's eye in between the patient's eye and the lens; and

c) applying electrical current of not more than 1.5 mA to the patient's eye for not more than 120 seconds.

18. The apparatus of claim 11 wherein the lens is disposable.

19. The apparatus of claim 11 wherein the lens removably fits the shell.

20. The apparatus of claim 11 wherein the shell has a convex portion with an electrode thereon.

21. An apparatus for performing electrophoresis on a patient's eye comprising:

20 a) a composite contact lens structure that comprises a conductive outer shell having a concave surface and a convex surface;

b) a disposable lens member that removably fits the shell at the concavity; and

25 c) the convex portion of the shell carrying an electrode for transmitting electrical current to the shell and lens member.

22. The apparatus of claim 21 wherein the lens member is soft.

23. The apparatus of claim 21 wherein the lens member is made of polyfilcon.

24. The apparatus of claim 21 further comprising a hand held power source.

25. The apparatus of claim 24 wherein the power source is battery powered.

30 26. Apparatus for performing electrophoresis on a patient's eye comprising:

a contact lens for contacting a patient's eye, the contact lens being pre-medicated with a dilator drug or a dilator reversal drug and for use in a composite contact lens structure having a conductive outer shell and the contact lens.

Sub B17
27. An apparatus for performing electrophoresis on a patient's eye comprising:
a) a composite contact lens structure that comprises an outer shell having a concave surface and a convex surface;
b) a disposable lens member that removably fits the shell at the concavity; and
c) the convex portion of the shell carrying an electrode for transmitting electrical current to the shell and lens member;
a light-activated power source for providing electricity to the electrode.

28. The apparatus of claim 27 wherein the lens member is soft.

29. The apparatus of claim 28 wherein the lens member is made of polyfilcon.

Sub B17
30. The apparatus of claim 27 wherein the light-activated power source is on or in the shell.

31. The apparatus of any one of claims 27-30, wherein the lens member is pre-medicated with a dilator drug or dilator reversal drug.

32. Apparatus for performing electrophoresis on a patient's eye comprising:
a contact lens for contacting a patient's eye, the contact lens being pre-medicated with a dilator drug or a dilator reversal drug and for use in a composite contact lens structure including an electrode and the contact lens.

✓ 33. The invention(s) substantially as shown and/or described herein.

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